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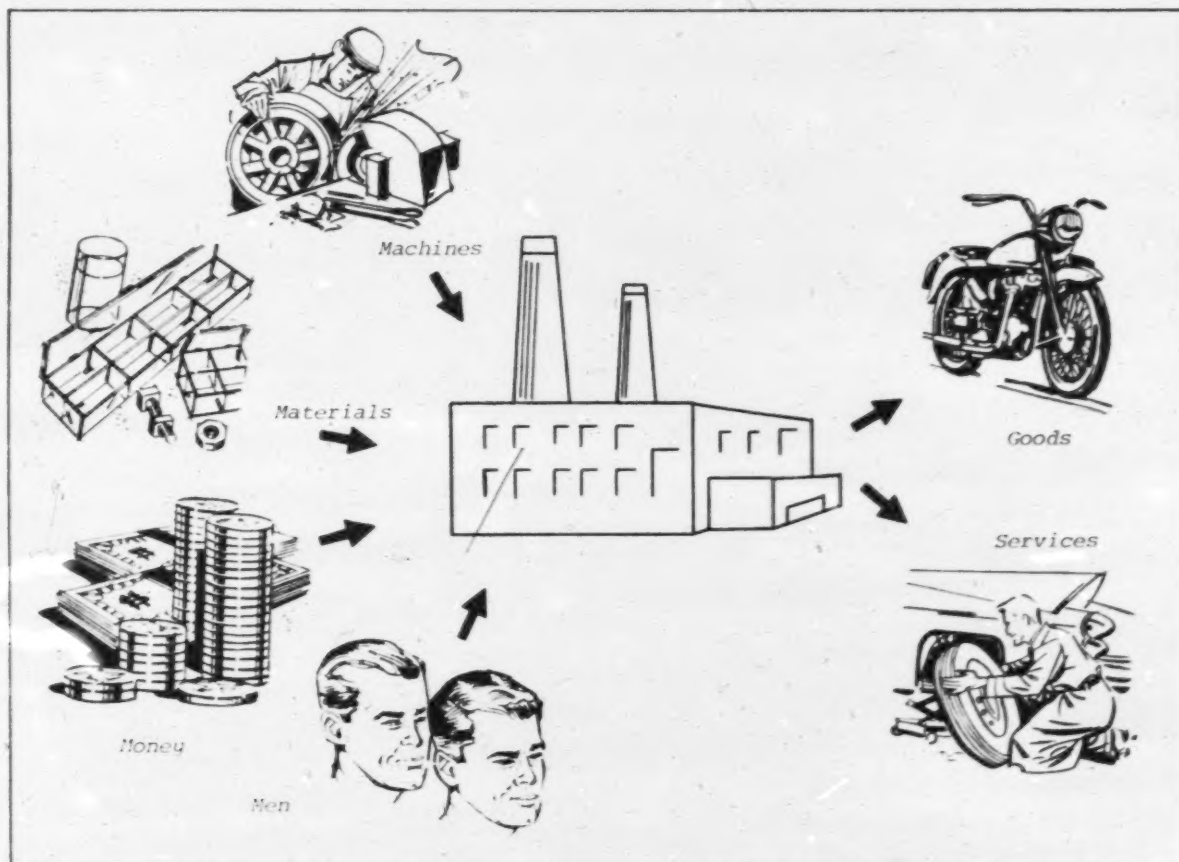
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ABSTRACT

The intent of this field tested instructional package is to encourage the student to explore occupational areas as a basis for selecting a career. Defining behavioral objectives, the course description includes a media guide, suggested classroom activities, and sample student evaluation forms as well as the basic information section. Three areas of communications are explored: electricity, electronics, and graphic arts and drafting. A sample outline, based on information provided in the Dictionary of Occupational Titles, offers the student assistance in analyzing possible communication related employment opportunities. (MW)

OCCUPATIONS IN COMMUNICATIONS



Prepared as an Aid in Implementing
The Wisconsin Guide to Local Curriculum
Improvement in Industrial Education, K-12

U.S. DEPARTMENT OF HEALTH,
 EDUCATION & WELFARE
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Learning Activity Package

Prepared as an Aid in Implementing
The Wisconsin Guide to Local Curriculum
Improvement in Industrial Education, K-12

Communications

Junior-Middle High School

Pertaining to Field Objective Number Four

"To explore occupational areas as a basis
for selecting a career and understanding
the pursuits of others as related
to the field of communications."

Produced by

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Materials Development Project
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University of Wisconsin-Stout

RATIONALE:

At this point in your life, it is important to begin thinking about a vocation, an occupation for your future. Since you are presently studying communications, let's make this the starting point of your career exploration. This should not be your only area of career exploration. If you do not conduct any further exploring in this course or other courses, you should make it your responsibility to explore the vast job opportunities in other fields of work.

In this package, we shall divide communications into three areas so that job exploring will become easier for you. These areas are electricity and electronics, graphic arts and drafting.

*It's time to think about
your future -- don't hide
from it!!*



Proceed to the next page and read the objectives!

OBJECTIVES:

Terminal Objective:

To explore occupational areas as a basis for selecting a career and understanding the pursuits of others as related to the field of communications.

Enabling Objectives:

1. List three classroom activities related to each of the occupational areas found within the communications areas - electricity and electronics, graphic arts and drafting.
2. List at least five occupations related to each of the communications areas - electricity and electronics, graphic arts and drafting.
3. Select an occupation related to one of the occupational areas found within communications and list the following information:
 - A. Job title
 - B. Job description
 - C. Training requirements
 - D. Where can the training be received (include a list of local sources)
 - E. Estimated salary
 - F. Location of employment
 - G. Job requirements
 - H. Why are you interested in this type of employment

Options: Read the self-test on the following pages and then check the following selections that apply to you.

_____ If you feel you can meet the above objectives:

- _____ A. See the instructor for teacher evaluation.
- _____ B. Take the self-test as a self evaluating device. Then see your instructor.

_____ If you feel you cannot meet the above objectives:

- _____ A. Take the self-test to see what objectives your studying should be based upon. Then turn to the media section on page 4.
- _____ B. Skip the self-test and turn to the media section on page 4 to help you achieve the objectives.

Self-Test:

Directions - Complete the following questions, write in the booklet.

1. List three classroom activities related to each of the following occupational areas found in communication:

A. Electricity and Electronics -

1.

2.

3.

B. Graphic Arts -

1.

2.

3.

C. Drafting -

1.

2.

3.

2. List five occupations related to each of the communications areas:

A. Electricity and Electronics -

1.

2.

3.

4.

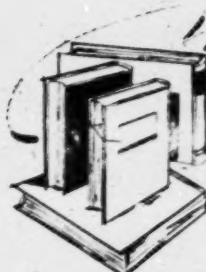
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B. Graphic Arts -

1.

2.

3.

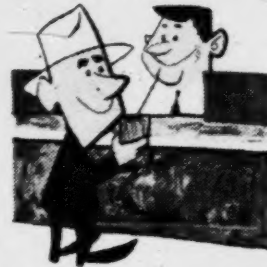


- 4.
 - 5.
- C. Drafting -

- 1.
- 2.
- 3.
- 4.
- 5.

3. Select an occupation related to one of the communications areas and list the following information:

- A. Job title
- B. Job description
- C. Training requirements
- D. Where the training can be received
- E. Estimated salary
- F. Location of employment
- G. Job requirements
- H. Why you are interested in this type of employment



MEDIA SECTION

Terminal Objective: To explore occupational areas as a basis for selecting a career and understanding the pursuits of others as related to the field of communications.

Media: Much of the information for this package should be common knowledge from your previous experiences in communications. If you do not know some of the answers to the first two activities you may want to ask your instructor or friends.

Read the information section in this package to obtain general information on objectives one, two, and three.

Activities: Complete all three activities located at the end of this package. They are all self-explanatory.

INFORMATION SECTION

Communication Activities

Before studying this package, you should have had some classroom experience in one or all of the three areas of communications: electricity-electronics, graphic arts and drafting.

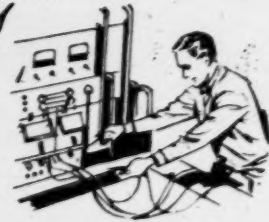
Listed below are a number of activities which you may have experienced in your industrial education classes that are in some way related to the occupational areas found within the communications area.

A. Electricity-electronics:

1. Repair an electrical cord.
2. Magnetize a screw driver tip.
3. Construct a crystal radio.
4. Wire a door bell or call bell.
5. Construct an electro-magnet.
6. Construct a number of power sources to include a wet cell battery and a thermo-couple.

ELECTRIC

Contractors



B. Graphic Arts:

1. Carve a linoleum block.
2. Print personalized stationary.
3. Photograph subjects and mount photos.
4. Cast a rubber stamp.
5. Visit a local newspaper.
6. Bind a book.
7. Print a silk screen.
8. Make an etching.

PRINTING

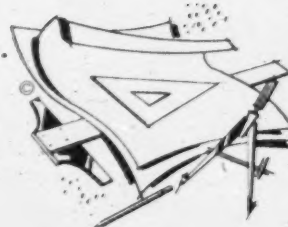


C. Drafting:

1. Design and sketch a project to be built.
2. Sketch a map.
3. Design and draw a poster.

BLUEPRINTS

4. Draw a floor plan of your room or your house.
5. Draw an object in orthographic projection.
6. Draw an assembly drawing of a simple object.



Related Occupations

You may be familiar or aware of a number of the related occupations in the area of communications. However, there are many related occupations that are not commonly known. Following is a list of many of the occupations related to the communications areas: electricity and electronics, graphic arts, and drafting.

Electricity and Electronics

Television & Radio Repair
Telephone Serviceman
Computer Technician
Electrical Engineer
Electrician (general)
Electrical Contractor
Television & Radio Broadcasting Technician

Graphic Arts

Photographer
Artists
Land Composer
Cartoonists
Pressman
Printer
Etcher
Proofer
Binder
Motion picture director
Linotype, Intertype, Monotype operator.

Drafting

Architect
Architectural Draftsman
Mechanical Draftsman
City Planning Engineer
Interior Decorator
Tool and Die Maker
Electrical Draftsman
Map Makers
Surveyors



How to Research and Select a Job

Here an occupation was selected from the area of graphic arts.

Following is a detailed description of this occupation.

- A. Job Title - Hand compositor (D.O.T. 973.381 as related to printing).



- B. Job Description - Hand compositors make up the composing room occupation in printing. Today most type that is set by hand is for work requiring very fine composition (usually larger size type for advertising copy) and for small jobs in which the setting of type machines would be impractical.

In setting type by hand, the compositor, reading from the manuscript copy, first set each line of type in a "composing stick" (a device which holds type in place) letter by letter and line by line. When this stick is full, he slides the completed lines onto a shallow metal tray called a "galley." From here the type is locked into a "chase" and placed into a platen press for printing.

- C. Training Requirements - Apprenticeship is a commonly required method for entry into a printing craft. Experience may be obtained through working in the industry, or by attending high schools, vocational schools, technical schools and colleges.



- D. Where Can You Receive This Training - (List local sources).
Menomonie High School, Dunn County News, District I Vocational School, UW-Stout, UW-Platteville.

- E. Estimated Salary - Hand compositors: Working for a newspaper company - \$5.00 per hour, working for a book and job company - \$5.14 per hour.

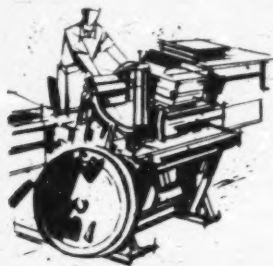


- F. Location of Employment - Printing jobs are found throughout the country. However, more than half of the nation's printing employees are in five states - New York, Illinois, California, Pennsylvania and Ohio.

- G. Requirements - A high school education is necessary. The applicant should possess a thorough knowledge of spelling, punctuation, fundamentals of grammar and basic mathematics; a knowledge of basic chemistry, electronics and physics are becoming increasingly important because of the growing use of photo-mechanical and electronic processes in printing. An artistic sense is also an asset. Most printing crafts require persons with good eyesight, about average physical strength and a high degree of manual dexterity. Mental alertness, speed combined with accuracy, neatness, patience and the ability to work with others is also necessary.



- H. Why am I Interested - My uncle owns a printing shop, and he has taught me some of the basic skills required in setting type. Having had these types of experiences, I believe I would like to obtain a job like this in the future.



Activity: Communications - IV-1

Name _____

Period _____

Directions: On this page, write at least three activities that you have completed in class related to each of the following fields in communications:

A. Electricity and Electronics

1.

2.

3.

B. Graphic Arts

1.

2.

3.

C. Drafting

1.

2.

3.

Activity: Communications - IV-2

Name _____

Period _____

Directions: On this page, write at least five occupations related to each of the communications areas. This information may be found in the Dictionary of Occupational Titles, communication text books, Occupational Outlook Handbook, or in interviews with parents, teachers, or company workers:

A. Electricity and Electronics

- | | |
|----|----|
| 1. | 4. |
| 2. | 5. |
| 3. | |

B. Graphic Arts

- | | |
|----|----|
| 1. | 4. |
| 2. | 5. |
| 3. | |

C. Drafting

- | | |
|----|----|
| 1. | 4. |
| 2. | 5. |
| 3. | |

Activity: Communications - IV-3

Name _____

Period _____

Directions: On a separate sheet of paper, please type or neatly print the following information related to a selected occupation in the field of communications. The example in the information section of this package may be used as the proper format to follow. All job reports will be compiled in a folder for student occupational outlook references. Following is the required information:

- A. Job title
- B. Job description
- C. Training required
- D. Where can the training be received
- E. Estimated salary
- F. Location of employment
- G. Job requirements
- H. Why you are interested in this type of employment.

This information may be found in the Dictionary of Occupational Titles, communication text books, Occupational Outlook Handbook, or in interviews with parents, teachers, or company workers.

Student Evaluation

Communications - #4

Name _____

Instructor _____

School _____

Directions: Answer all of the following questions to the best of your ability. The questions are written to evaluate your knowledge and understanding of the area of industrial arts covered in this package. Choose the answer which best completes the statement.

1. Opportunities for employment in the communications field:
 - a. Are very rare - that's why the communications packages you studied were so short.
 - b. Generally require highly skilled and knowledgeable people.
 - c. Are abundant for people who have the know-how.
 - d. None of the above
 - e. B and C above
2. Workers in the communications industries find job opportunities:
 - a. Only in the biggest cities
 - b. In almost every community in the country
 - c. Equally distributed throughout the United States.
3. To work in the communications industry you must:
 - a. Obtain a college degree
 - b. Go to trade school
 - c. Become an apprentice
 - d. Graduate from high school
 - e. It's impossible to say because the communications field is large and requires various kinds of workers.
4. Very few of the activities in a typical junior high school classroom apply to the field of communications.
 - a. True
 - b. False
5. Training for employment in the communications industry is very hard to obtain in junior high schools and almost always begin after high school graduation.
 - a. True
 - b. False

- N
6. Training for work in communications can be obtained:
 - a. In your home
 - b. In high school
 - c. In colleges
 - d. In vocational schools
 - e. In apprentice programs
 - f. All of the above
 7. If you don't work in the communications industry, any job training you received in electronics, drafting, or graphic arts will be:
 - a. Wasted
 - b. Useful in many other activities and occupations
 - c. Apply to only a few specialized non-communications jobs
 8. Salaries of people who work in the communications field:
 - a. Are lower than most other fields
 - b. Generally are comparable to other fields
 - c. Vary considerably
 - d. Both B and C
 9. A radio repair man will likely benefit considerably from high school and junior high school courses in
 - a. Graphic arts
 - b. Electricity
 - c. Drafting
 - d. A and B above
 - e. B and C above
 10. Junior high school years are a little too soon to begin thinking about employment in the communications field.
 - a. True
 - b. False